SERVICE MANUAL

MINI B/W TELEVISION WITH AM/FM RADIO & DIGITAL ALARM CLOCK



TPM 2140

(EUROPE - FTZ)



SPECIFICATIONS

"I" "G" "B" type, 625 lines/frame, 25 frames/sec., 50 fields/sec. Television System

"M" type, 525 lines/frame, 30 frames/sec., 60 fields/sec.

2 - 12(EUR-system) Frequency Range

VHF Channels 2 - 13(US-system)

21 - 69(UK, EUR-system) **UHF** Channels

14 - 83(US-system) 530 - 1,605 KHz

ΑM FM 87.5 - 108 MHz

Antenna Input Impedance 75 ohm

Picture 38.9 MHz TV: Intermediate Frequency 32.9 MHz(UK)/33.4 MHz(EUR)/34.4 MHz(US) Sound

ΑM 460 KHz Radio:

10.7 MHz FΜ 2-inch diagonal, 40 degrees deflection, C205P4 or E2225 Picture Tube

1C Semiconductors 45

Transistor Diode 45mm round type, 16 ohm Loudspeaker

150mW (10% distortion) 200mW Max Sound output DC 9V (AC adaptor 110-120/220-240V 50/60Hz)

Power Source

Rechargeable battery pack (option)

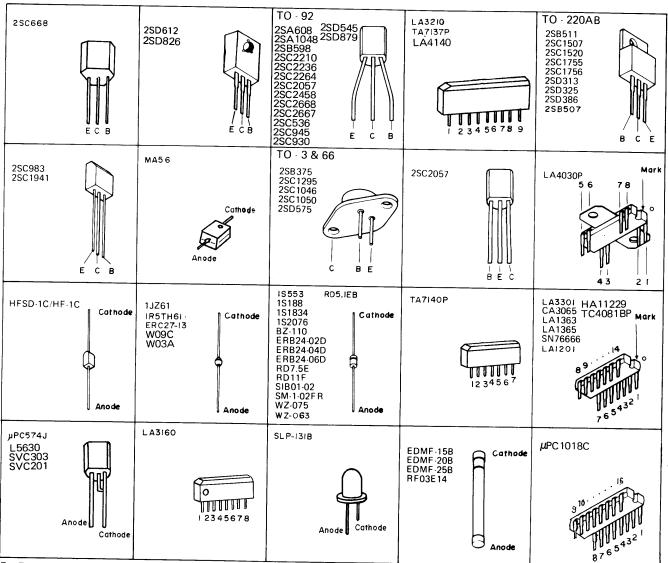
DC adaptor (option)/5 "AA" cells (option) DC 2.5W

Power Consumption 131mm (W) x 51mm (H) x 157mm (D) approx. (without handle) Dimensions

0.8Kg approx.

Weight

TERMINAL VIEW



E: Emitter C: Collector B: Base S: Shield

CONTROLS AND TERMINAL IDENTIFICATION

1 Light button (LIGHT)

Push this switch to illuminate the LCD clock display.

2 Mode Select button (MODE SELECT)

See Owner's Manual Page 6.

3 Aerial

Use this aerial to receive TV (VHF, UHF) and FM radio broadcast.

4 Time Advance button (TIME ADVANCE)

See Owner's Manual Page 6.

5 Time Set switch (TIME SET)

See Owner's Manual Page 6.

6 Timer Select switch (TIMER SELECT)

Set the selector to wake up with Buzzer, Radio or TV.

7 External Aerial jack (EXT ANT)

Connect the Aerial Adaptor (optional) to this jack to use an external aerial.

8 Earphone jack (EAR)

For private listening, plug the earphone (supplied) into the jack.

9 TV Select switch (TV SELECT)

Set this switch to desired channel band.

10 TV-Radio Select switch (TV-RADIO SELECT)

Select your desired function, TV or Radio (AM or FM).

11 Volume control (VOLUME)

Adjust to obtain your required output volume.

12 Tuning knob

Use to tune to your desired channel or station and obtain vivid picture and clear sound.

13 Main switch

Turns the power ON or OFF or to Timer function.

When recharging the rechargeable battery pack (supplied), plug in the AC Adaptor packed with the set and turn this switch to OFF(charge) or TIMER position.

14 TV System switch (TV SYSTEM)

Set this switch to desired television system.

15 Contrast control (CONTRAST)

Adjust this control to obtain proper balance between black and white elements of the picture.

16 Brightness control (BRIGHT)

Adjust this control to obtain desired brilliance of the picture.

17 Vertical Hold control (V-HOLD)

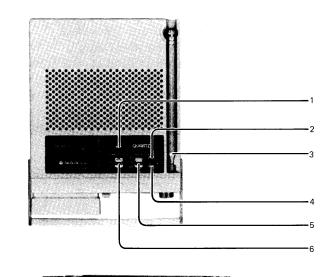
Adjust this control to stop up or down movement of the picture.

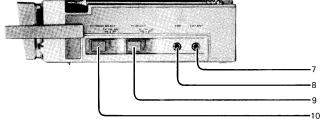
18 Battery Compartment

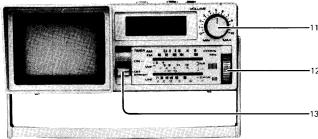
Remove the lid by pushing to the direction of arrow and install dry cells or rechargeable battery pack.

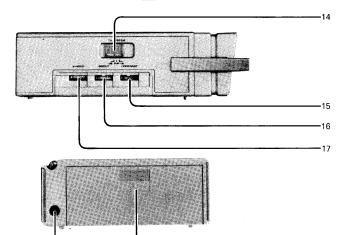
19 External Power jack (DC IN 9V)

To use the set on AC 110-120/220-240-volt or external DC 12-volt, plug the AC Adaptor or Car Battery Cord Model MDC-53B (optional) into this jack.





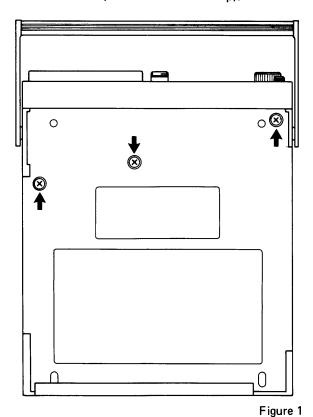




MECHANICAL DISASSEMBLIES

CABINET TOP REMOVAL

- 1. Place the TV set upside down on a soft surface.
- 2. Remove three screws as indicated in Figure 1.
- Open the battery compartment lid of the rear of the TV set by sliding it in the direction as indicated in Figure 2.
- Push the two hooks in the direction of the arrow as indicated in Figure 3, and lift the Cabinet Top away from TV set. (NOTE: Be careful of the Rod Antenna and Handle, when you lift the Cabinet Top).



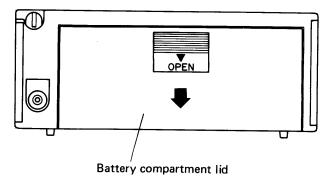


Figure 2

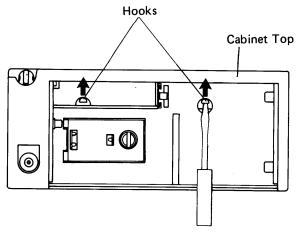


Figure 3

RADIO P.C.B. REMOVAL

- Remove Cabinet Top (Refer to CABINET TOP REMOVAL).
- 2. Take out two knobs (TV-RADIO SELECT, TV SELECT).
- 3. Remove three screws as indicated in Figure 4.
- 4. Pull out the Side Panel in the direction (A) as indicated in Figure 4.
- 5. Pull out the Cabinet Front in the direction (B) as indicated in Figure 4.
- 6. Take out the 3P socket from the TV P.C.B. as indicated in Figure 5.
- 7. Lift the Radio P.C.B. and Cabinet Front in the direction of the arrow as indicated in Figure 5.

(NOTE: Keep the leads P4(Green), P5(Black) and Volume(Gray) as far as possible from the SF101, when assembling after servicing so that the leads does not pick up any oscillation).

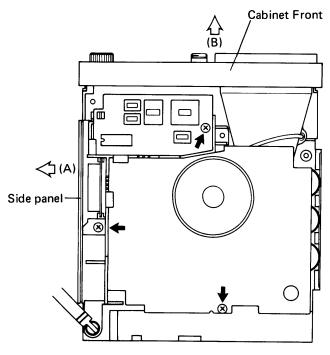


Figure 4

TV P.C.B. REMOVAL

- 1. Remove the Cabinet Top and Radio P.C.B. by following the instructions for them.
- Slightly pull the TV P.C.B. in the direction (A) and lift it in the direction (B) of the arrow as indicated in Figure 5. Then, the TV P.C.B. will be removed.

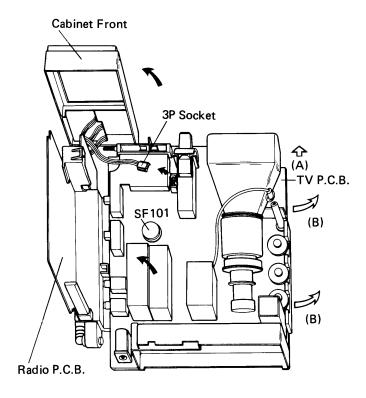


Figure 5

NOTE: When assembling after servicing.

Dress all the leads on Radio P.C.B. to keep away from IC LA4140. Also dress all the leads on TV P.C.B. so that the leads do not cross over to Horizontal Output Trans.

PICTURE TUBE REMOVAL

- 1. Remove the Cabinet Top and Radio P.C.B. by following the instructions for them.
- Remove the anode cap and the picture tube socket. Then, slightly loosen the screw securing the Deflection Yoke.
- 3. Pull the picture tube toward you.

(The Safety Shield can be removed under this condition. However, insert the Safety Shield into the CRT when the CRT is mounted. Be sure there is no accumulation of dust between the picture tube face and the Safety Shield when reinstalling.)

4. After picture tube removal.

Place section (A) of the Cabinet Top on Anode Cap of the picture tube, when Cabinet Top assembling as illustrated in Figure 6.

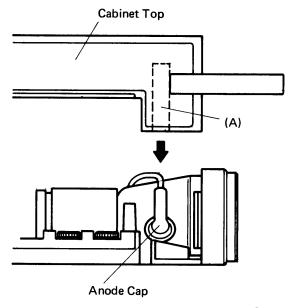


Figure 6

SPEAKER REMOVAL

When you have replaced the Speaker, Do not forget the lead (Black) roll on magnet of the Speaker and apply plenty of cemedine adhesive around the lead as illustrated in Figure 7.

(REASON: To prevent picture distortion when sound maximum).

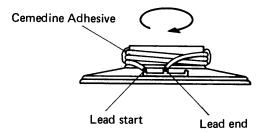


Figure 7

IMPORTANT NOTICE FOR SERVICE PERSONNEL BEFORE SERVICING

PLEASE READ BEFORE ATTEMPTING SERVICE

- 1 The AC power line voltage must be kept within ±10% of the rated voltage.
- 2 DO NOT DISCHARGE, ARC, OR MEASURE HIGH VOLTAGE WHEN HIGH VOLTAGE LEAD IS CONNECTED TO CRT. DISCHARGE 2ND ANODE OF CRT ONLY AFTER HIGH VOLTAGE LEAD HAS BEEN DISCONNECTED. DO NOT DISCHARGE HIGH VOLTAGE LEAD AT ANY TIME, DAMAGE TO TRANSISTORS MAY RESULT.
- 3 While the receiver is in operation, do not attempt to connect or disconnect any wires.
- 4 Disconnect all power before attempting any repairs.
- 5 When the power is on, do not attempt to short any portion of the circuit. This shorting may cause damage to the transistors in the receiver.
- 6 When adjusting Horizontal Oscillator Frequency, do not vary this frequency more than ±800 Hz from 15,750 Hz center frequency: 800 Hz equals 13 bars.

TELEVISION ADJUSTMENT

PICTURE FOCUS (See Fig. 8)

Adjust focus - VR (FP601) to obtain the best focus. While the adjustment, do not disconnect the picture tube coating earth.

DEFLECTION YOKE AND CENTERING RINGS

- 1 Turn the receiver on and disconnect the antenna.
- 2 Loosen the Deflection Yoke Clamp, and carefully move the yoke on the neck of the picture tube as far forward as possible. Rotate the yoke until the top and bottom edges of the raster are straight. Tighten the clamp.
- 3 Center the raster and eliminate shaded corners by rotating the centering rings until the best effect is obtained.

VERTICAL HEIGHT (See Fig. 8)

- 1 Adjust the Height control (VR501) to obtain proper picture height.
- 2 Rotate V Hold control (VR502) completely clockwise or counterclockwise to confirm the picture rolls up or down at both extreme positions.

HORIZONTAL HOLD CONTROL (See Fig. 8)

Adjust the H - Hold control (L601) to corrects any slanting of the picture.

SOUND IF ALIGNMENT PROCEDURE (See Fig. 9)

- 1 Set the TV System switch to UK position (SW01).
- 2 Set the Signal Generator to 6.0MHz, FM 1KHz±15KHz dev. and Sig. Gen. output 110db.
- 3 Connect the Signal Generator through 4700pF to P4,VTVM to Q (R305) respectively.
- 4 Set the TV Tuning Knob to unused channel.
- 5 Adjust T301 for maximum reading on VTVM.
- 6 Set the Signal Generator to 6.0MHz, AM 1KHz±30%dev, and Sig. Gen. output 40db±10db for maximum reading on VTVM, then adjust T301 for minimum reading on VTVM.
- 7 Set the TV System switch to EUR position (SW01).
- 8 Set the Signal Generator to 5.5MHz, AM 1KHz±30%dev, and Sig. Gen. output 40db±10db for maximum reading on VTVM, then adjust CT302 for minimum reading on VTVM.
- 9 Set the TV System switch to US position (SW01).
- 10 Set the Signal Generator to 4.5MHz, AM 1KHz±30%dev, and Sig. Gen. output 40db±10db for maximum reading on VTVM, then adjust CT301 for minimum reading on

RADIO P.C.B.

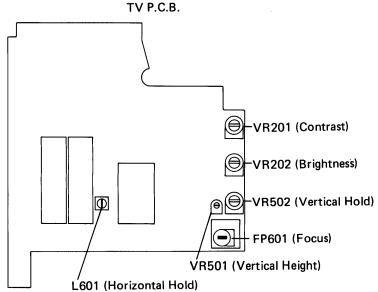


Figure 8

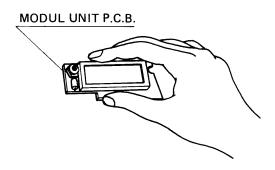
RL04 RI 02 (0)RL(O) IC 301 (1) RCT02 $| \bigcirc$ $^{\circ}$ RT05 RT06 OllO ᡅ swoi (D)

Figure 9

HANDLING AND REPAIRING OF LCD QUARTZ CLOCK P.C.B.

HANDLING OF LCD QUARTZ CLOCK P.C.B. (MODULE & CONTROL UNIT)

- LCD Quartz Clock uses C-MOS LSI and C-MOS IC. These LSI and IC are very sensitive to static electricity and can be easily damaged by the static electricity. Therefore, give a proper protection to the Clock P.C.B. when handling it.
- As LCD is very weak against ultraviolet rays, do no expose the watch to direct sunlight or extremely hot temperatures.
- The polarized plate is attached on the surface of LCD to make letter contrasts. As the plate can easily be scratched, pay due caution when handling it.
- Strong shock on the surface of LCD will cause defective electrical contacts and time display.
- After attaching LCD to the unit, wipe the surface of LCD clean with a soft cloth to prevent it from electrification.
- 6. Do not touch the P.C.B. pattern directly. Hold the both ends of the P.C.B.

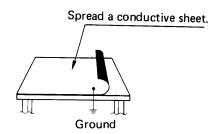


LCD QUARTZ CLOCK P.C.B. STORAGE

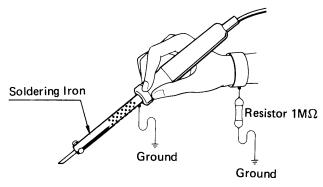
- 1. Store the watch in an ambient temperature of $0^{\circ}C 50^{\circ}C$ and low humidity. Also keep it in a dark place.
- 2. Do not unwrap the package of the parts before use.
- Completed LCD Quartz Clock P.C.B. and LCD Quartz Clock Control Unit are prepared as repair parts.

NOTES ON CLOCK P.C.B. REPAIR

1. Spread the conductive sheet on the worktable and ground it. Perform the repair work on the table.

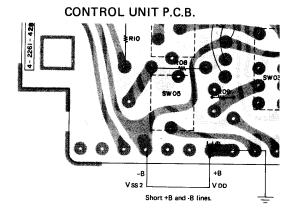


- 2. Use a soldering iron for IC (Insulation resistance: 300M-ohm) or ground the ordinary soldering iron to prevent alternate current leakage.
- 3. When performing a repair work, wear the grounded



conductive bracelet with 1M-ohm resistor.

- 4. Ground the meter body to avoid electrification.
- Do not use the resistance range at the measurement by the tester.
- Take out the five dry batteries and a silver oxide battery.
 Then, remove the LCD Quartz Clock P.C.B. following the disassembly method.
- Discharge the electric potential by shorting the +B line and -B line in the Clock Control Unit. Then, ground the +B line.

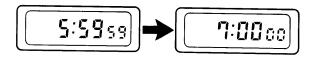


REPAIR OF LCD QUARTZ WATCH

- Before repair work, check to see that the silver oxide battery is correctly set in the battery holder and that the leads connected to the Watch P.C.B. are not broken.
- When any trouble on the watch display is caused, replace the completed LCD Quartz Clock P.C.B. or the LCD Quartz Control Unit with a new one.
- Replace them when the following troubles appear.
 - 1. LCD display does not appear when the battery is replaced with a new one.
 - 2. A part of the digital display is missing as illustrated.

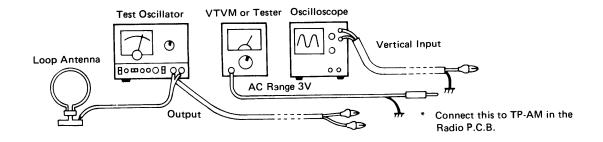


3. Time display is skipped over as illustrated.



AM RADIO ALIGNMENT PROCEDURE

CONNECTION OF THE MEASURING INSTRUMENTS



* Bring the output cord of the test oscillator close to the Bar Antenna.

PRELIMINARIES

- 1 Oscilloscope is set to prevent the waveform from saturating and to obtain peak value.
- 2 Set the VTVM to the 3V, AC range.
- 3 Modulate the test oscillator at 1KHz and set the degree of modulation to approximately 30% if the modulation degree is variable.

AM IF ADJUSTMENT (460KHz Adjustment)

- 1 Set the test oscillator to 460KHz.
- 2 Adjust the cores of IFT, RT05, RT06 and RT07 for maximum reading on VTVM. (Repeat the adjustment two or three times.)
 - * Keep the output of the test oscillator as low as possible. Check to see that the waveform is not saturated by using the oscilloscope.

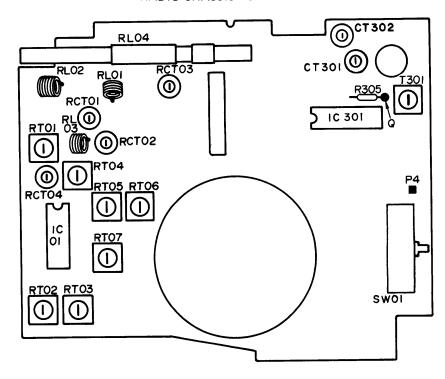
AM TRACKING ADJUSTMENT

- 1 Remove the paraffin fastening the coil of the bar antenna(RL04), so that the coil can be moved.
- 2 Set the test oscillator and the Radio Dial to 600KHz.
- 3 Move the coil of the bar antenna for maximum oscilloscope waveform and VTVM indication.
 - * After adjustment, fasten the coil with paraffin.
- 4 Set the test oscillator and the Radio Dial to 1400KHz.
- 5 Adjust the trimmer capacitor (RCT03) of the variable capacitor for maximum oscilloscope waveform and VTVM indication.
- * Repeat the AM frequency range and AM tracking adjustments two or three times.

AM FREQUENCY RANGE ADJUSTMENT (Adjustment to cover 530KHz - 1605KHz)

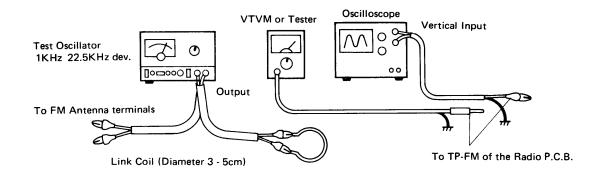
- 1 Set the test oscillator to 505KHz.
- 2 Turn the Radio Tuning Knob to the lower frequency(Tuning Capacitor plates fully meshed).
- 3 Adjust the core of RT04 for maximum oscilloscope waveform and VTVM indication.
- 4 Set the test oscillator to 1650KHz.
- 5 Turn the Radio Tuning Knob to the highest frequency (Tuning Capacitor plates fully open).
- 6 Adjust the trimmer capacitor(RCT04) of the variable capacitor for maximum oscilloscope waveform and VTVM indication.

RADIO CHASSIS TOP VIEW



FM RADIO ALIGNMENT PROCEDURE

CONNECTION OF THE MEASURING INSTRUMENTS



PRELIMINARIES

- 1 Set the VTVM to the 3V, AC range.
- 2 Make a link coil of diameter 3 5cm(2") as illustrated for the test oscillator output and set it on Q02 or RL02 when FM IF adjustments are performed. Connect the oscillator output to the FM antenna terminals for some other adjustments.

FM IF ADJUSTMENT (10.7MHz Adjustment)

- 1 Set the link coil on RL02.
- 2 Set the test oscillator to 10.7MHz and adjust IFT RT02 for maximum on the VTVM.
- 3 Minimize the test oscillator output as much as possible and adjust IFT RT01, RT02 and RL02 for maximum on the VTVM.
 - * Repeat the adjustment two or three times.
- 4 Adjust IFT RT03 for maximum on the VTVM.
- 5 Check to see that the indications of VTVM is identical. If not, repeat steps 2 4.

FM FREQUENCY RANGE ADJUSTMENT

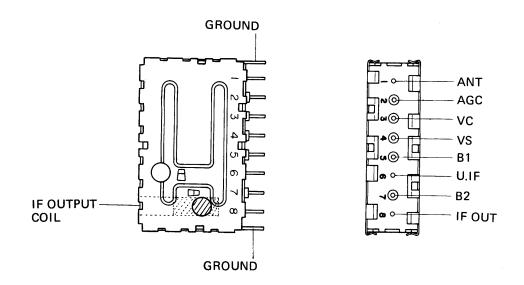
(Adjustment to cover 87.5MHz - 108MHz)

- 1 Set the test oscillator to 87.25MHz and connect it to the FM terminals.
- 2 Turn the Radio Tuning Knob to the lower frequency (Tuning Capacitor plates fully meshed).
- 3 Adjust RL03 for maximum indication on the oscilloscope and VTVM.
 - * After adjustment, secure RL03 with paraffin.
- 4 Set the test oscillator to 108.40MHz and turn the Radio Tuning Knob to the higher frequency (Tuning Capacitor plates fully open).
- 5 Adjust the trimmer capacitor RCT02 on the variable capacitor for maximum indication on the oscilloscope and VTVM.

FM TRACKING ADJUSTMENT

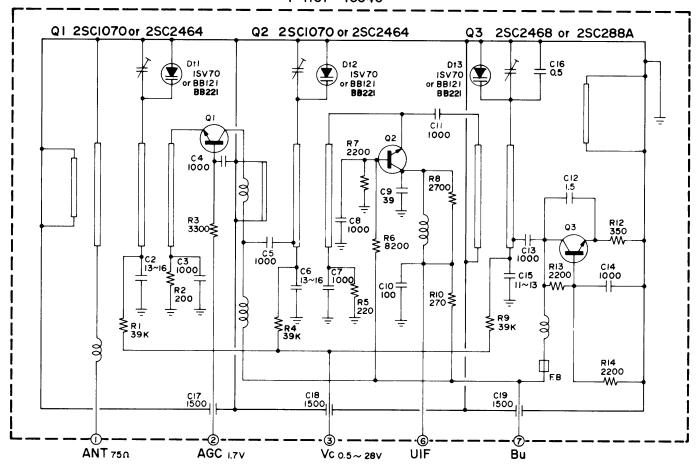
- 1 Set the test oscillator to 90.0MHz and connect the output to the FM antenna terminals.
- 2 Set the Radio Dial to 90.0MHz and adjust RL01 and RL02 for maximum.
 - * After adjustment, secure RL01 and RL02 with paraffin.
- 3 Set the test oscillator and the Radio Dial to 105.0MHz.
- 4 Adjust the trimmer capacitor RCT01 of the variable capacitor for maximum oscilloscope waveform and VTVM indication.
- * Repeat the FM Frequency range and FM tracking adjustments two or three times.

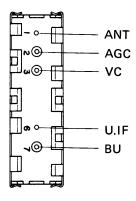
VHF TUNER 4-1151-07740 Q1 2SCI856 or 2SC2465 Q2 2SC2466 or 2SC2467 Q3 2SC2469 czz C18 2200 C23 22 3 17 C12 2200 6800 ¥ ≱RI7 ≱IOK ISV70 or BB121 ₹ R14 330 D12 |SV70 or | BB|2| C21 _____ C30 2200 IFT C33 330 DI 152075 or 152076 or 11173N मा ब्रे C15 2200 ₹R20 22K ± C13 \$ R8 Ds3 ISS85 or BA243 C19 2200 ₹RIO K T C27 -W-RI5 470 -W-RI9 2700 C34 100∼120 TF C39 I500 C41 1500 C 42 1500 C43 1500 --⊚∙ UIF ANT AGC Vc 03~26∨ ۷s Βī Bz IF OUT



PICTORIAL OF VHF TUNER

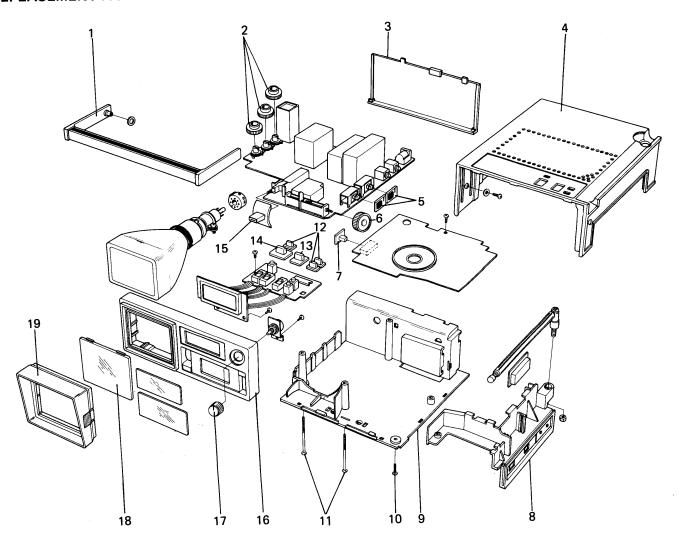
UHF TUNER 4-1151-46540





PICTORIAL OF UHF TUNER

REPLACEMENT PARTS LIST



Key No.	Parts No.	Description	Q'ty
1	111 0 1711 07170	HANDLE ASSY-TMF	1
2	111 2 1641 24770	TV CONTROL KNOB-TMF	3
3	111 2 1161 18872	BATTERY COVER-TMF-A1	1
4	111 0 1161 16973	CAB TOP ASSY-TMF-A2	1
5	111 2 1641 25070	SELECT KNOB-TMF	2
6	111 2 1631 18270	TUNING KNOB-TMF	1
7	111 2 1641 24970	E/A SELECT KNOB-TMF	1
8	111 2 1241 12072	SIDE PANEL-TMF-A1	1
9	111 0 1161 17073	CAB BOT ASSY-TMF-A2	1
10	111 2 4211 15270	BTP, 3.0x12, C2	1
11	111 2 4211 15070	SUS BTP 3.0x40	2
12	111 2 1641 24470	TIME SET BUTTON-TMF	3
13	111 2 1641 24570	TIMER SW KNOB-TMF	1
14	111 2 1641 25170	TIMER SW KNOB-TMF-B	1
15	111 2 1641 24870	POWER SW KNOB-TMF	1
16	111 0 1121 10573	CAB FR ASSY-TMF-A2	1
17	111 2 1641 24670	VOLUME KNOB-TMF	1
18	111 2 1141 15270	SAFETY SHIELD-TMF	1
19	111 2 6151 10370	HOOD-TMF	1

PRODUCT SAFETY NOTICE

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN A COMPONENT REPLACEMENT IS MADE IN ANY AREA OF A UNIT. COMPONENTS INDICATED BY A MARK Å IN THIS PARTS LIST AND THE SCHEMATIC DIAGRAM SHOW COMPONENTS WHOSE VALUE HAVE SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. IT IS PARTICULARLY RECOMMENDED THAT ONLY PARTS SPECIFIED ON THE FOLLOWING PARTS LIST BE USED FOR COMPONENT REPLACEMENT POINTED OUT BY THE MARK.

Schematic Location	Parts No.		Description	Q'ty	Schematic Location	Parts No.	Description	Q'ty
CHASSI	S PARTS				L601	4 2731 06070	HORIZ OSC COIL	1
	111 2 5291	12670	CLO PCB HOLDER-TMF	1	L602	4 2761 49870	DEFLECTION YOKE	i
	111 2 6111		TV SHIELD CASE-TMF	1	SF101		SAW FILTER	1
	111 2 6111	27670	TV SHLD CASE TOP-TMF	1	T601	4 2751 48800	FLYBACK TRANS	1
	111 2 6111	27770	TV SHLD CASE BOT-TMF	1	X201	4 2531 10570	CERAMIC TRAP 4.5M	1
	111 2 6211	24370	RADIATOR PLATE-TMF	1	X202	4 2531 10670	CERAMIC TRAP 5.5M	1
	111 2 6231		CRT EARTH TIP-TMF	1	014411			
	111 2 7311	34370	TV PCB INS SHEET-TMF	1	SMALL	PARTS		
DAOKIN	C .44.TED.					4 2261 42671	PC BOARD 9JC-P	1
	G MATERIA		OUT 0000 0405 THE 40			4 2261 43771	PC BOARD 9JC-U	1
	111 6 1131		OUT CORR CASE-TMF-AB	1	SW03, 0		SLIDE SWITCH	2
	111 6 1411 111 6 2511	12172	IND CASE-TMF-AC	1	SW02	4 2311 10670 4 2351 05770	LEVER SWITCH CRT SOCKET	1
		54970	IND POLY COVER-MBA TOP INNER CUSH-TMF-B	1		4 2351 05770	1P DC JACK-E	1
	111 6 3111		BOT INNER CUSH-TMF-B	1		4 2361 14570	3P M MICRO PLUG	1 2
		10970	TOP PAD-TMF. US	2		4 2361 14670	1P MICRO PLUG	6
	0 0011	10370	TOT TAB THIT: 05	_		4 2441 06570	ROD ANTENNA	1
ACCESS	ORIES AND	LABE	IS		P2	111 0 9081 01011	1P MICRO SOCKET ASSY	i
	4 6611		S-OXIDE BAT G12	1	P7	111 0 9081 01012	1P MICRO SOCKET ASSY	i
	111 0 1771		SHLD BELT AY-TMF	i	P8	111 0 9081 01013	1P MICRO SOCKET ASSY	i
-	111 0 6151		HOOD ASSY-TMF-D	1	P10, 11		1P MICRO SOCKET ASSY	2
	111 0 9021		CONVERSION PLUG ASSY	1	P12, 13		1P MICRO SOCKET ASSY	2
	111 0 9131		AC ADAPTOR ASSY	i	•	111 0 9081 03037	3P NI-CD PLUG ASSY	ī
	111 2 1811		CARRING CASE-TMF-C	1				•
	111 6 2701		PM ASSY-TMF-K	1	VARIA	BLE RESISTORS		
	111 6 2711	05870	ENVELOPE-SR-C	(1)	VR001	4 2221 33770	TUNING VR B-100K	1
	111 6 4111	97872	INST MANUAL-TMF-C	(1)	VR201	4 2221 33870	9CVFR9B-5K	1
	111 6 4211	26063	SCHEMATIC DIAG-9J	(1)	VR202	4 2221 33970	9CVFR9B-200K	1
	111 6 4151	20370	POWER SETTING NOTICE	(1)	VR501	4 2221 34170	6CVFRB-2M	1
	111 6 4151	20570	BATTERY NOTICE-TMF	(1)	VR502	4 2221 34070	9CVFR9B-2M	1
	111 0 9121	06371	EARPHONE	1				
	111 6 2711		ENVELOPE-SR-C	1	CAPAC	ITORS		
	111 6 4151		BATTERY NOTICE-TMF	1	C001	C1EYDK102C	CERAMIC 1000P C 25V	1
	111 6 4551	18770	SERIAL NO LABEL-TJP	2	C002	C1EYDK102C	CERAMIC 1000P C 25V	1
0005140	0404457				C003	COJRE-476A	ELECT 47M 6.3V	1
SCHEWS	-CABINET				C004	C1EYDK102C	CERAMIC 1000P C 25V	1
	101 3 1102		SNB , 2.6X 4,Z1	2	C101	C1HYDK102W	CERAMIC 1000P W 50V	1
	102 3 2203 102 3 2203		SBT , 3.0X 6,Z1	2	C102	C1HCDJ680RH-	CERAMIC 68P RH 50V	1
	102 3 2203		SBT , 3.0X 8,Z1	3	C103 C104	C1HYDK102W C1HYDK102W	CERAMIC 1000P W 50V	1
	104 3 1103		SBT , 3.0X 10,Z1 ZRN 1, 3.0,	1	C105	C1HYDK102W	CERAMIC 1000P W 50V CERAMIC 1000P W 50V	1
		15070	ZRN 1, 3.0, SUS BTP 2,3.0X40	1 2	C106	C1HCDJ390RH-	CERAMIC 1000F W 50V	1
	111 2 4211		BTP 2, 3. 0X12, C2	1	C107	C1HYDK102W	CERAMIC 1000P W 50V	i
		.0270	D11 27 3. 0X 127 02	•	C108	C1HCDJ820RH-	CERAMIC 82P RH 50V	i
SCREWS	-CHASSIS				C109	C1HYDK102W	CERAMIC 1000P W 50V	i
	101 3 1103	00802	SNB , 3.0X 8,Z1	1	C110	C1HCDJ820RH-	CERAMIC 82P RH 50V	1
	102 3 2203	00802	SBT , 3.0X 8,Z1	2	C111	C1HCDD100RH-	CERAMIC 10P RH 50V	1
	104 3 1103	00006	SRN 1, 3.0,	1	C112	C1HCDD100RH-	CERAMIC 10P RH 50V	1
	111 3 1103	00803	SBW , 3.0X 8.0X05Z1	1	C113	C1HCDD100RH-	CERAMIC 10P RH 50V	1
		_			C114	C1EYDK473C	CERAMIC 0. 047M C 25V	1
ELECTR	ICAL PART	S			C115	C1EYDK473C	CERAMIC 0.047M C 25V	1
	4 1151		VHF TUNER	1	C116	C1EYDK473C	CERAMIC 0.047M C 25V	1
	4 1151		UHF TUNER	1	C117	COJRE-227A	ELECT 220M 6.3V	1
	4 1511		SPEAKER	1	C118	C1CRE-106A	ELECT 10M 16V	1
	4 2531		U-V FILTER	1	C119	C1HRE-105A	ELECT 1M 50V	1
	4 9541		LCD CLOCK DQ437	1	C120	COJRE-476A	ELECT 47M 6.3V	1
	111 0 9061		CLOCK CONTROL UNIT	1	C121	C1EYDK473C	CERAMIC 0.047M C 25V	1
	111 0 9061		OSC BLOCK UNIT	1	C122	C1EYDK473C	CERAMIC 0.047M C 25V	1
FP601	4 1911		FOCUS PACK	1	C123	C1HRE-105A	ELECT 1M 50V	1
L001	4 2531		FILTER COIL 0. 33UH	1	C124	C1HYDP103Z	CERAMIC 10000P Z 50V	1
L101	4 2531		FILTER COIL 0.56UH	1	C125	C1HYDP103Z	CERAMIC 10000P Z 50V	1
L102 L103	4 2531 4 2531		FILTER COIL 1.2UH	1	C126 C127	C1EYDK473C C1EYDK473C	CERAMIC 0. 047M C 25V	1
L103	4 2531		FILTER COIL 39MHZ FILTER COIL 78MHZ	1	C202	COJTDM476A	CERAMIC 0. 047M C 25V	1
L104	4 2721		PEAKING COIL 220	1 1	C202	C1HYDK471W	TANTAL 47M 6.3V CERAMIC 470P W 50V	1
L106	4 2531		FILTER COIL 0.56UH	1	C203	COJRE-107A	ELECT 100M 6.3V	1
L201	4 2531		FILTER COIL 2. 2UH	1	C205	C1HDRK104C	M-CERAMIC 0.1M 50V	1
	. 2001			•		2.1121111144	JETICHTO OF THE GOV	•

^{2.} Ordering quantity of resistors must be multiple of 10pcs.

^{3.} Component parts indicated by parentheses in the colum Q'ty are not available.

Schematic Location	Parts No.	Description	Q'ty	Schematic Location	Parts No.	Description	Q'ty
C401	C1HRE-105A	ELECT 1M 50V	1	R132	R2BSUJ102A	CARBON 1K 1/8WJ	1
C402	C1EYDK223C	CERAMIC 0. 022M C 25V	1	R201	R2BSUJ220A	CARBON 22 1/8WJ	1
C403	C1EYDK223C	CERAMIC 0.022M C 25V		R202	R2BSUJ821A	CARBON 820 1/8WJ	1
C501 C502	C1EYDK473C C1VTDK224A	CERAMIC 0.047M C 25V TANTAL 0.22M 35V	1	R203 R204	R2BSUJ820A R2BSPJ682A	CARBON 82 1/8WJ CARBON 6.8K 1/8WJ	1
C502	C1HDRK104C	M-CERAMIC 0.1M 50V	i	R205	R2BSPJ392A	CARBON 3.9K 1/8WJ	1
C504	C1HRE-105A	ELECT 1M 50V	i	R206	R2BSPJ122A	CARBON 1.2K 1/8WJ	1
C505	C1EYDK223C	CERAMIC 0. 022M C 25V	1	R207	R2BSUJ102A	CARBON 1K 1/8WJ	1
C506	C1HYDK102W	CERAMIC 1000P W 50V	1	R208	R2BSPJ123A	CARBON 12K 1/8WJ	1
C507	C1HYDK561W C1HDRK104C	CERAMIC 560P W 50V M-CERAMIC 0.1M 50V	1	R209 R210	R2BSUJ561A R2BSPJ222A	CARBON 560 1/8WJ CARBON 2.2K 1/8WJ	1
C508 C509	COJRE - 477A	ELECT 470M 6.3V	i	R211	R2BSUJ224A	CARBON 220K 1/8WJ	i
C510	COJRE-476A	ELECT 47M 6.3V	i	R212	R2ESPJ225A	CARBON 2.2M 1/4WJ	1
C512	C1HDRK823C	M-CERAMIC 0.082M 50V	1	R213	R2BSUJ222A	CARBON 2.2K 1/8WJ	1
C513	C1HDRK154C	M-CERAMIC 0.15M 50V	1	R401	R2BSUJ101A	CARBON 100 1/8WJ	1
C514	C1HFRJ154A	MYLAR 0.15M 50V	1	R402 R403	R2BSUJ561A R2BSUJ224A	CARBON 560 1/8WJ CARBON 220K 1/8WJ	1
C515 C516	COJRE-108A C1HDRK823C	ELECT 1000M 6.3V M-CERAMIC 0.082M 50V	, i	R404	R2BSUJ473A	CARBON 47K 1/8WJ	i
C601	C1EYDK332C	CERAMIC 3300P C 25V	1	R405	R2BSUJ681A	CARBON 680 1/8WJ	1
C602	C1HFRK472A	MYLAR 0.0047M 50V	1	R406	R2BSUJ472A	CARBON 4.7K 1/8WJ	1
C603	C1HFRK472A	MYLAR 0.0047M 50V	1	R407	R2BSUJ123A	CARBON 12K 1/8WJ	1
C604	C1HDRK104C	M-CERAMIC 0.1M 50V	1	R501	R2ESPJ5R6A	CARBON 5.6 1/4WJ CARBON 4.7K 1/8WJ	1
C605 C606	C1ERE-475A C1HFRJ183A	ELECT 4.7M 25V MYLAR 0.018M 50V	i	R502 R503	R2BSUJ472A R2BSPJ124A	CARBON 4.7K 1/8WJ	1
C607	C1HDRK104C	M-CERAMIC 0. 1M 50V	i	R504	R2BSPJ334A	CARBON 330K 1/8WJ	i
C508	COJRE-476A	ELECT 47M 6.3V	1	R505	R2BSUJ101A	CARBON 100 1/8WJ	1
C609	C1CRE-106A	ELECT 10M 16V	1	R506	R2BSPJ394A	CARBON 390K 1/8WJ	1
C610	C2AQRJ273A	POLYPR 0.027M 100V	, 1	R507	R2BSPJ105A	CARBON 1M 1/8WJ	1
C611 C612	C2HYDK102W C0JRE-477A	CERAMIC 1000P W 500V ELECT 470M 6.3V	' i	R508 R509	R2BSPJ823A R2BSPJ394A	CARBON 82K 1/8WJ CARBON 390K 1/8WJ	1
C613	C1HRE - 475A	ELECT 4.7M 50V	i	R510	R2BSPJ124A	CARBON 120K 1/8WJ	i
C614	C1ERE-475A	ELECT 4.7M 25V	1	R511	R2BSPJ823A	CARBON 82K 1/8WJ	1
C615	C1HRE-105A	ELECT 1M 50V	1	R512	R2BSPJ333A	CARBON 33K 1/8WJ	1
C616	C1HFRK473A	MYLAR 0.047M 50V	1	R513	R2BSPJ220A	CARBON 22 1/8WJ	1
C617 C620	C1HFRK223A C1HYDK561W	MYLAR 0.022M 50V CERAMIC 560P W 50V	1	R514 R515	R2BSUJ562A R2BSUJ221A	CARBON 5.6K 1/8WJ CARBON 220 1/8WJ	1
C622	C1EYDK102C	CERAMIC 1000P C 25V	i	R516	R2BSUJ224A	CARBON 220K 1/8WJ	i
C701	C1CRE-106A	ELECT 10M 16V	1	R517	R2BSUJ184A	CARBON 180K 1/8WJ	1
C702	C1EYDK473C	CERAMIC 0. 047M C 25V		R518	R2BSUJ473A	CARBON 47K 1/8WJ	1
C703	C1EYDK473C	CERAMIC 0.047M C 25V		R519	R2BSUJ2R2A	CARBON 2.2 1/8WJ	1
C704	C1CRE-476A	ELECT 47M 16V	1	R520 R521	R2BSUJ8R2A R2BSUJ473A	CARBON 8.2 1/8WJ CARBON 47K 1/8WJ	1
FIXED	RESISTORS			R522	R2BSUJ220A	CARBON 22 1/8WJ	i
R001	R2BSUJ222A	CARBON 2.2K 1/8WJ	1	R523	R2BSPJ824A	CARBON 820K 1/8WJ	1
R002	R2BSUJ472A	CARBON 4.7K 1/8WJ	1	R601	R2BSUJ561A	CARBON 560 1/8WJ	1
R003	R2BSUJ222A	CARBON 2.2K 1/8WJ	1 1	R602	R2BSUJ103A	CARBON 10K 1/8WJ CARBON 3.9K 1/8WJ	1
R101 R102	R2BSUJ123A R2BSUJ272A	CARBON 12K 1/8WJ CARBON 2.7K 1/8WJ	1	R603 R604	R2BSUJ392A R2BSUJ102A	CARBON 1K 1/8WJ	i
R104	R2BSUJ221A	CARBON 220 1/8WJ	i	R605	R2BSUJ222A	CARBON 2.2K 1/8WJ	1
R105	R2BSUJ561A	CARBON 560 1/8WJ	1	R606	R2BSUJ472A	CARBON 4.7K 1/8WJ	1
R106	R2BSUJ101A	CARBON 100 1/8WJ	1	R607	R2BSUJ183A	CARBON 18K 1/8WJ	1
R107	R2BSUJ123A	CARBON 12K 1/8WJ	1	R608	R2BSUJ390A	CARBON 39 1/8WJ CARBON 120 1/8WJ	1
R108 R109	R2BSUJ272A R2BSUJ221A	CARBON 2.7K 1/8WJ CARBON 220 1/8WJ	i	R609 R610	R2BSUJ121A R2BSPJ471A	CARBON 470 1/8WJ	i
R110	R2BSUJ682A	CARBON 6.8K 1/8WJ	i	R611	R2BSUJ101A	CARBON 100 1/8WJ	1
R111	R2BSUJ152A	CARBON 1.5K 1/8WJ	1	R612	R2BSUJ821A	CARBON 820 1/8WJ	1
R112	R2BSPJ121A	CARBON 120 1/8WJ	1	R613	R2BSUJ100A	CARBON 10 1/8WJ	1
R113	R2BSUJ123A	CARBON 12K 1/8WJ	1	R614	R2BSPJ183A	CARBON 18K 1/8WJ	1 1
R114 R115	R2BSUJ222A R2BSUJ271A	CARBON 2.2K 1/8WJ CARBON 270 1/8WJ	1	R615 R616	R2BSPJ472A R2BSUJ472A	CARBON 4.7K 1/8WJ CARBON 4.7K 1/8WJ	i
R116	R2BSUJ182A	CARBON 1.8K 1/8WJ	i	R617	R2BSUJ272A	CARBON 2.7K 1/8WJ	i
R117	R2BSUJ182A	CARBON 1.8K 1/8WJ	1	R618	R2BSUJ182A	CARBON 1.8K 1/8WJ	1
R118	R2BSUJ101A	CARBON 100 1/8WJ	1	R619	R2BSPJ564A	CARBON 560K 1/8WJ	1
R119	R2BSUJ682A	CARBON 6.8K 1/8WJ	1	R701	R2HCPK101A	SOLID 100 1/2WK	1
R120 R121	R2BSUJ2R2A R2BSUJ152A	CARBON 2.2 1/8WJ CARBON 1.5K 1/8WJ	1	R702 R703	R2BSPJ222A R2BSPJ122A	CARBON 2.2K 1/8WJ CARBON 1.2K 1/8WJ	1 1
R121	R2BSUJ271A	CARBON 1. 3K 1/8WJ	1	R705	R2BSUJ221A	CARBON 1.2K 178W3	i
R123	R2BSUJ152A	CARBON 1.5K 1/8WJ	1				
R124	R2BSUJ183A	CARBON 18K 1/8WJ	1		AND SEMICONDUC		
R125	R2BSUJ823A	CARBON 82K 1/8WJ	1		4 2021 18770		1
R126	R2BSUJ332A	CARBON 3.3K 1/8WJ CARBON 820 1/8WJ	1		4 2021 07470 4 2021 07470	SI DIODE 1S2076 SI DIODE 1S2076	1
R127 R128	R2BSUJ821A R2BSUJ223A	CARBON 820 178WJ	1		4 2021 07470		1
R129	R2BSUJ332A	CARBON 3. 3K 1/8WJ	i		4 2020 03500		1
R130	R2BSUJ102A	CARBON 1K 1/8WJ	1	D501	4 2021 07470	SI DIODE 1S2076	1
R131	R2BSUJ821A	CARBON 820 1/8WJ	1	D502	4 2021 07470	SI DIODE 1S2076	1

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Schematic Location	Parts No.	Description	Q'ty	Schematic Location	Parts No.	Description	Q'ty
D503	4 2021 07470	SI DIODE 1S2076	1	C307	C1EYDK103C	CERAMIC 0.01M C 25V	1
D601	4 2020 03500	GE DIODE 1S188TV	1	C308	C1EYDK473C	CERAMIC 0. 047M C 25V	1
D602	4 2020 03500	GE DIODE 1S188TV	1	C309	C1EYDK103C	CERAMIC 0.01M C 25V	1
D603	4 2020 03500	GE DIODE 1S188TV	1	C310	C1EYDK473C	CERAMIC 0. 047M C 25V	1
D604 D605	4 2021 17370 4 2021 07670	SI DIODE WO9C SI DIODE 1S2076A	1	C311 C312	C1ETDM105A C1HCDK330RH-	TANTAL 1M 25V CERAMIC 33P RH 50V	i
D605	4 2021 07670	SI DIODE 152076A	i	C312	C1HYDK221W	CERAMIC 220P W 50V	i
D607	4 2021 07470	SI DIODE 1S2076	1	C314	C1EYDK473C	CERAMIC 0.047M C 25V	1
D608	4 2021 20770	ZE DIODE RD4. 3E	1	C315	COJRE - 107A	ELECT 100M 6.3V	1
D701	4 2020 03500	GE DIODE 1S188TV	1	C316	C1CRE - 106A	ELECT 10M 16V CERAMIC 2200P C 25V	1
D702	4 2021 21170 4 2021 07470	ZE DIODE RD7.5EB2 SI DIODE 1S2076	1	C317 C318	C1EYDK222C C1EYDK103C	CERAMIC 2200P C 25V CERAMIC 0.01M C 25V	i
D703 D704	4 2021 07470	SI DIODE 152076	i	C319	COJRE - 476A	ELECT 47M 6.3V	i
D705	4 2021 07470	SI DIODE 1S2076	1	C320	C1HFRK683A	MYLAR 0.068M 50V	1
IC601	4 2021 10970	IC ZE DIODE UPC574J	1	C321	COJRE - 477A	ELECT 470M 6.3V	1
Q101	TG2SC930SPE	SI TR 2SC930SP	1	C322	COJRE - 107A	ELECT 100M 6.3V CERAMIC 0.047M C 25V	1
Q102 Q103	TG2SC2057-E1- TG2SC930SPE	SI TR 2SC2057 SI TR 2SC930SP	1	C323 C324	C1EYDK473C C0JTDM476A	TANTAL 47M 6.3V	i
Q104	TG2SC930SPE	SI TR 2SC930SP	i	C325	C1EYDK472C	CERAMIC 4700P C 25V	1
Q105	TG2SC930SPE	SI TR 2SC930SP	1	C326	C1EYDK473C	CERAMIC 0. 047M C 25V	1
Q106	TG2SA608SPF	SI TR 2SA608SP	1	C327	C1HCDK330RH-	CERAMIC 33P RH 50V	1
Q107	TG2SC536SPE	SI TR 2SC536SP	1	C328	C1HCDC2RORH-	CERAMIC 2P RH 50V CERAMIC 0.022M C 25V	1
Q108 Q201	TG2SA608SPF TG2SC536SP	SI TR 2SA608SP SI TR 2SC536SP	1	C329 C330	C1EYDK223C C1EYDK223C	CERAMIC 0. 022M C 25V	1
		SI TR 2SC2458	i	C331	C1EYDK472C	CERAMIC 4700P C 25V	i
	TT2SC2458-Y	SI TR 2SC2458	1	D301	4 2021 20970	SI DIODE WO3A	1
0202	TG2SC536SP	SI TR 2SC536SP	1	D302	4 2021 20870	ZE DIODE RD5. 6EB1	1
	TT2SC2458-GR-	SI TR 2SC2458	1	D303	4 2021 07470	SI DIODE 152076	1
Q203	TT2SC2458-Y TN2SC945P	SI TR 2SC2458 SI TR 2SC945	1 1	D304 D305	4 2021 07470 4 2021 07470	SI DIODE 1S2076 SI DIODE 1S2076	1
	TN2SC945Q	SI TR 2SC945	i	D305	4 2021 07470	SI DIODE 152076	i
Q401	TG2SA608SPE	SI TR 2SA608SP	1	D307	4 2021 07470	SI DIODE 1S2076	1
Q501	TG2SC536F	SI TR 2SC536	1	IC301	4 2061 09670	IC-HA11229	1
Q502	TG2SC536SPF	SI TR 2SC536SP	1	10302	4 2061 09770	IC-LA4140	1
Q503	TT2SC2458-GR- TG2SC536SPF	SI TR 2SC2458 SI TR 2SC536SP	1 1	L 3 0 1 L 3 0 2	4 2721 02209 4 2591 05370	PEAKING COIL 220 FM PHASE COIL 68UH	1 1
	TT2SC2458-GR-	SI TR 25C2458	1	L302	4 2721 02209	PEAKING COIL 220	i
Q504	TG2SC536SPF	SI TR 2SC536SP	1	Q301	TT2SC2236	SI TR 2SC2236	1
o r	TG2SC536SPG	SI TR 2SC536SP	1	RBPF1	4 2531 12770	FM BAND PASS FILTER	1
or	TT2SC2458-BL-	SI TR 2SC2458	1	RCF1	4 2531 11871	CERAMIC FILTER 10.7M	1
Q505	TT2SC2458-GR- TG2SD545F	SI TR 2SC2458 SI TR 2SD545	1	RCT1 RCT2	4 2241 04770 4 2241 04570	TRIMMER CAP 7PMAX TRIMMER CAP 20PMAX	1
Q506	TG2SB598F	SI TR 258598	i	RCT3	4 2241 04770	TRIMMER CAP 7PMAX	i
Q507	TG2SC536SPF	SI TR 2SC536SP	1	RCT4	4 2241 04770	TRIMMER CAP 7PMAX	1
	TG2SC536SPG	SI TR 2SC536SP	1	RC01	C1EYDK472C	CERAMIC 4700P C 25V	1
	TT2SC2458-GR- TG2SC536F	SI TR 2SC2458 SI TR 2SC536	1	RC02 RC03	C1EYDK223C C1EYDK103C	CERAMIC 0.022M C 25V CERAMIC 0.01M C 25V	1
Q601 Q602	TG2SC5365PF	SI TR 25C536	1	RC04	C1EYDK103C	CERAMIC 0.022M C 25V	i
or		SI TR 2SC536SP	1	RC05	C1HCDC2RORH-	CERAMIC 2P RH 50V	1
	TT2SC2458-GR-	SI TR 2SC2458	1	RC07	C1HCDD5R0RH-	CERAMIC 5P RH 50V	1
	TM2SC2264	SI TR 2SC2264	1	RC08	C1HCDC2R0RH-	CERAMIC 2P RH 50V	1
Q701 Q702	TG2SD826 TG2SC536SPF	SI TR 2SD826 SI TR 2SC536SP	1	RC09 RC10	C1HCDK220RH- C1HYDK221W	CERAMIC 22P RH 50V CERAMIC 220P W 50V	1 1
	TG2SC536SPG	SI TR 2SC536SP	i	RC 1 1	C1EYDK103C	CERAMIC 0.01M C 25V	i
	TT2SC2458-GR-	SI TR 2SC2458	1	RC12	C1EYDK223C	CERAMIC 0. 022M C 25V	
TH101	4 2041 05370	THERMISTOR SDT-35	1	RC13	C1HRE-105A	ELECT 1M 50V	1
TH501		THERMISTOR SDT-1000	1	RC14	C1EYDK223C	CERAMIC 0. 022M C 25V	
TH502 TH601		THERMISTOR SDT-02 THERMISTOR SDT-100	1	RC15 RC16	C1EYDK223C C1EYDK223C	CERAMIC 0.022M C 25V CERAMIC 0.022M C 25V	
	QE-E2225S	CRT E2225	i	RC 1 7	C1HCDC2RORH-	CERAMIC 2P RH 50V	i
	QN-C205P4S	CRT C205P4	1	RC18	C1HCDJ220RH-	CERAMIC 22P RH 50V	1
		- (=\ =\ .		RC19	C1HCDK150RH-	CERAMIC 15P RH 50V	1
ELECIF	RICAL PARTS (RADI			RC20	C1HCDK150RH-	CERAMIC 15P RH 50V	1
	111 0 9181 00474	RADIO ASSY	1	RC21	C1EYDK223C	CERAMIC 0.022M C 25V CERAMIC 15P RH 50V	
	111 0 9061 42774 4 2261 42772	RADIO PCB ASSY PC BOARD 9JC-R2	1	RC22 RC23	C1HCDK150RH- C1EYDK103C	CERAMIC 15F NA 50V	1
	4 2361 14670	1P MICRO PLUG	ż	RC24	C1HCDC6RORH-	CERAMIC 6P RH 50V	i
	111 2 3551 26370	VR MTG BRKT-TMF	1	RC25	C1EYDK223C	CERAMIC 0.022M C 25V	1
CT301		TRIMMER CAP 20PMAX	1	RC26	C1EYDK103C	CERAMIC 0.01M C 25V	1
CT302		TRIMMER CAP 20PMAX	1 ' 1	RC27 RC28	C1ERE-475A C1HYDK221W	ELECT 4.7M 25V CERAMIC 220P W 50V	1
C301 C302	C1EYDK223C C0JRE-476A	CERAMIC 0.022M C 25V ELECT 47M 6.3V	1	RC29	C1HYDK221W	CERAMIC 220P W 50V	1
C302	COJTDM476A	TANTAL 47M 6.3V	i	RC30	C1EYDK223C	CERAMIC 0.022M C 25V	
	C1ERE-475A	ELECT 4.7M 25V	1	RC31	C1HRE-474A	ELECT 0.47M 50V	1
C305	C1EYDK473C	CERAMIC 0. 047M C 25V		RC32	C1EYDK223C	CERAMIC 0.022M C 25V	
C306	C1EYDK103C	CERAMIC 0.01M C 25V	1	RC33	C1ERE-475A	ELECT 4.7M 25V	1

^{2.} Ordering quantity of resistors must be multiple of 10pcs.

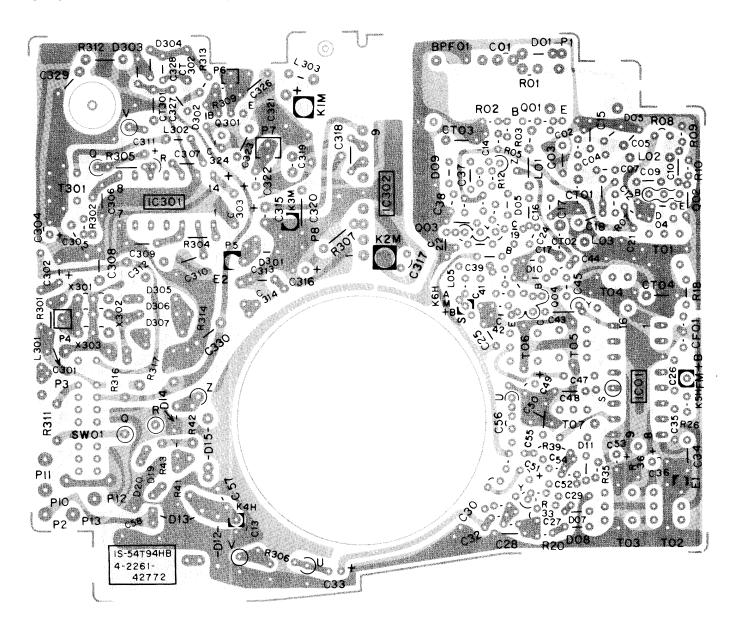
^{3.} Component parts indicated by parentheses in the colum Q'ty are not available.

RC14 C1FURCZD2 RC14 C1FURCZD2 RC16 C1FURCZ23C RC17 C1FURCZ23C RC17 C1FURCZ23C RC17 C1FURCZ23C RC17 C1FURCZ23C RC18 C1FURCZ23	Schematic Location	Parts No.	Description	Q'ty	Schematic Location	Parts No.		Description	Q'ty
## C23 CIEPTO 230 ## C24 CI	BC34	C1FYDK223C	CERANIC O 022H C 25H						
RG29 C FEMALE C 20 PAR 190 1 RR26 R RESULTION CARBON 10 1/28 1									
RCSS CHOOQZRONH- CERAMIC 2P RH 50V 1 RH26 R28SUJ12AA CARBON 12 N 1 RH27 R28SUJ12AA CARBON 12 N 1				1					•
RC42 CIEVOX2320- CERAMIC 0.022M C 28V 1 RR28 R28UJ223A CARBON 12X 1/8WJ 1 R428 R28UJ323A CARBON 10X 1/8WJ 1 R428 R28UJ32A CARBON 10X 1/8WJ 1 R428 R				1					•
RC42 CUITDMA76A -				1				CARBON 120K 1/8WJ	1
ROC44 CIEVOK1020 CERAMIC 1000P C 28V 1 RR30 R285UJ223A CARBON 3.2 x 1 x 8 x 1 R 2 R 2 R 2 R 2 R 2 R 2 R 2 R 2 R 2 R				1					
RC44 C1EYDK223G FRAMIC 0.022M C 22V 1 FRAMIC 0.102M C 25V 1 FRAMIC 0.102M C 25V 1 FRAMIC 0.101M C 27V 1 FRAM				1					
Color			CERAMIC 0.022M C 25V	1					
RC44 C1EYDK103C CERANIC 0.01M C 25V RA35 R25SUJ502A CARBON 5.6K, 78M RC48 C14F0K-73C CERANIC 0.047M C 25V RA35 R25SUJ272A CARBON 5.6K, 78M RC48 C14F0K-73C CERANIC 0.029M C 25V RA35 R25SUJ272A CARBON 77K 1/8W RC58 C1EYDK-73C CERANIC 0.029M C 25V RA38 R25SUJ272A CARBON 1K 1/8W RC58 C1EYDK-103C CERANIC 0.01M C 25V RA38 R25SUJ272A CARBON 1K 1/8W RC58 C1EYDK-103C CERANIC 0.01M C 25V RA38 R25SUJ272A CARBON 1K 1/8W RC58 C1EYDK-103C CERANIC 0.01M C 25V RA42 R25S-J104A CARBON 1K 1/8W RC58 C1EYDK-73C CERANIC 0.029M C 25V RA43 R25S-J104A CARBON 10K 1/8W RC58 C1EYDK-73C CERANIC 0.029M C 25V RA43 R25S-J104A CARBON 10K 1/8W RC58 C1EYDK-73C CERANIC 0.047M C 25V RA43 R25S-J104A CARBON 10K 1/8W RC58 C1EYDK-73C CERANIC 0.047M C 25V RA53 R35 R35 R35 R35 R35 R35 R35 R35 R35 R				1					
RC48 C14*POK-73C				1					1
ACCCORDING CLARE-10-08 CLECT TOW 10 10 10 10 10 10 10 1				1					
RCSS C1EYDK223C RCSS C1EYDK23C RCSS C1EYDK13C CERAMIC O. OIM C 25V				i					
RCS1 C14PNC103C CERAMIC 0.01M C 25V 1 RRA9 R28SFJ102A CARBON 1K 1/8WJ 1 RRA9 R28SFJ02AA CARBON 1ZOK 1/8WJ 1 RRA9		C1EYDK223C		1					
RCSS CIERE-478A ELECT 47M 25V RAMA RCSS CIEVOK103C CERAMIC C. 0.01M C 25V RAMS RCSS CIEVOK123C CERAMIC C. 0.01M C 25V RAMS RCSS CIEVOK23C CERAMIC C. 0.02M C 25V RAMS RCSS CIEVOK473C CERAMIC C. 0.047 C 25V RAMS RCSS CIEVOK473C RODO3 4 2021 2037 C 24V C 2				1		R2BSPJ102A			
RCSS C1EYOK103C CERAMIC 0. 02M C 25V 1 RR32 R2SSFJ104A CABRON 100K 1/8WJ 1 RCSS C1EYOK23C CERAMIC 0. 022M C 25V 1 RR3 R2SSFJ30A CABRON 470K 1/8WJ 1 RCSS C1EYOK472C CERAMIC 0. 028M SOV 1 RT01 4 2561 08970 FM IF TRANS 1 RCSS C1EYOK473C CERAMIC 0.068M SOV 1 RT01 4 2561 08970 FM IF TRANS 1 RCSS C1EYOK473C CERAMIC 0.009M 2 80V 1 RT02 4 2561 08970 FM IF TRANS 1 RCSS C1EYOK473C CERAMIC 0.009M 2 80V 1 RT02 4 2561 08970 FM IF TRANS 1 RCSS C1EYOK473C CERAMIC 0.009M 2 80V 1 RT03 4 2561 08970 FM IF TRANS 1 RCSS C1EYOK473C CERAMIC 0.0047M C 25V 1 RT03 4 2561 08970 FM IF TRANS 1 RCSS C1EYOK473C CERAMIC 0.0047M C 25V 1 RT03 4 2561 08970 FM IF TRANS 1 RCSS C1EYOK473C CERAMIC 0.0047M C 25V 1 RT03 4 2561 08970 FM IF TRANS 1 RCSS C1EYOK473C CERAMIC 0.0047M C 25V 1 RT05 4 2561 08970 FM IF TRANS 1 RCSS C1EYOK473C CERAMIC DI SVC201 RT05 4 2561 08970 FM IF TRANS 1 RCSS C1EYOK473C CERAMIC DI SVC201 RT05 4 2561 08970 FM IF TRANS 1 RCSS C1EYOK473C CERAMIC DI SVC201 RT05 4 2561 08970 FM IF TRANS 1 RCSS C1EYOK473C CERAMIC DI SVC201 RT05 4 2561 08970 FM IF TRANS 1 RCSS C1EYOK473C CERAMIC DI SVC201 RT05 4 2561 08970 FM IF TRANS 1 RT05 4 2561 08970 FM IF TRANS 1 RCSS C1EYOK473C CERAMIC DI SVC201 RT05 4 2561 08970 FM IF TRANS 1 RCSS C1EYOK473C CERAMIC RESPONSE C1EYOK473C-				1					1
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AC65 CIHORK693C RC65 CIHORK693C RC65 CIHORK693C RC65 CIHORK693C RC66 CIHORK693C RC67 CIHORK693C RC67 CIHORK693C RC68 CIHORK6				i					
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RR22 R2BSUJ472A CARBON 4.7K 1/8WJ 1									

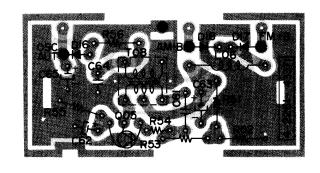
^{2.} Ordering quantity of resistors must be multiple of 10pcs.

^{3.} Component parts indicated by parentheses in the colum Q'ty are not available.

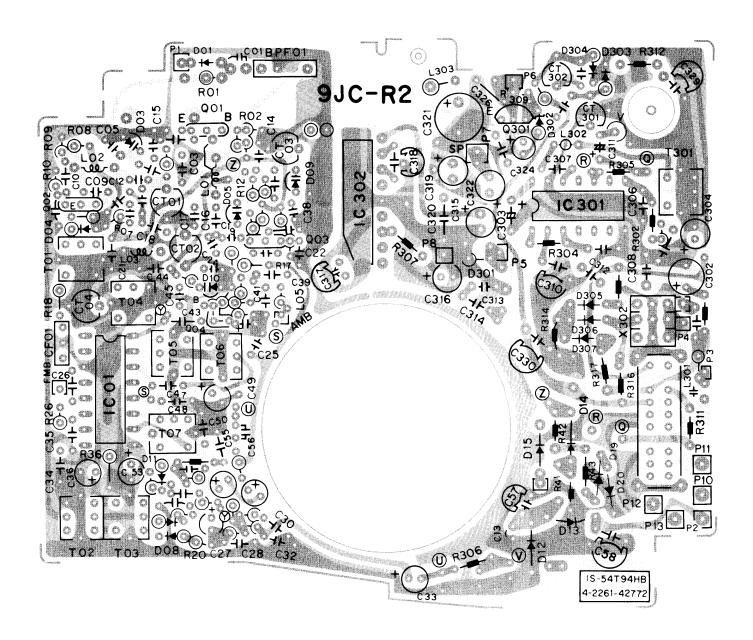
CIRCUIT BOARD DIAGRAM (RADIO)



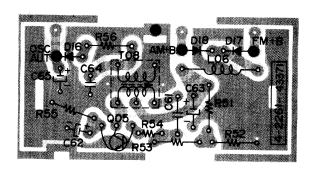
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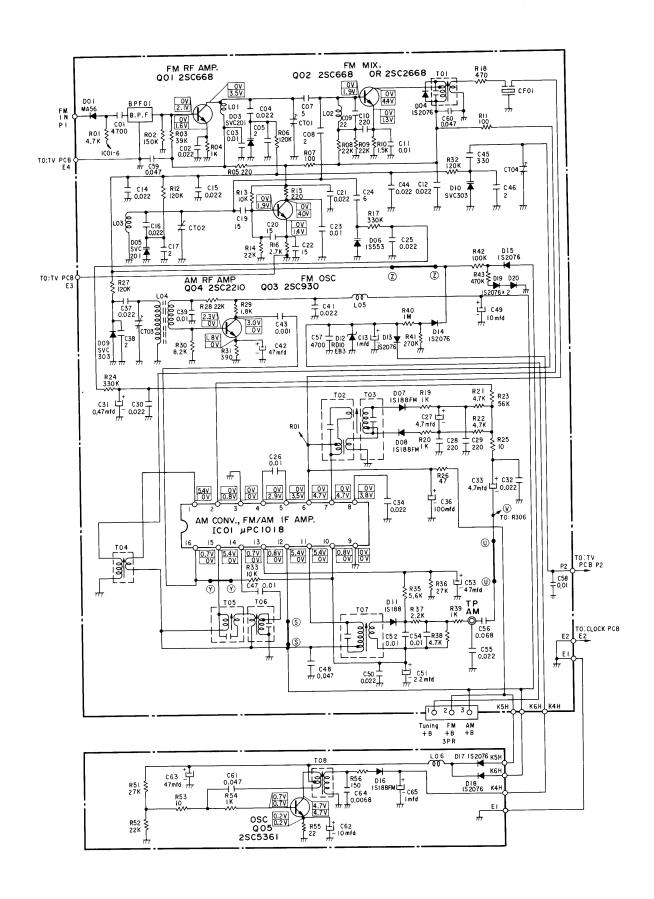


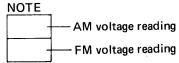
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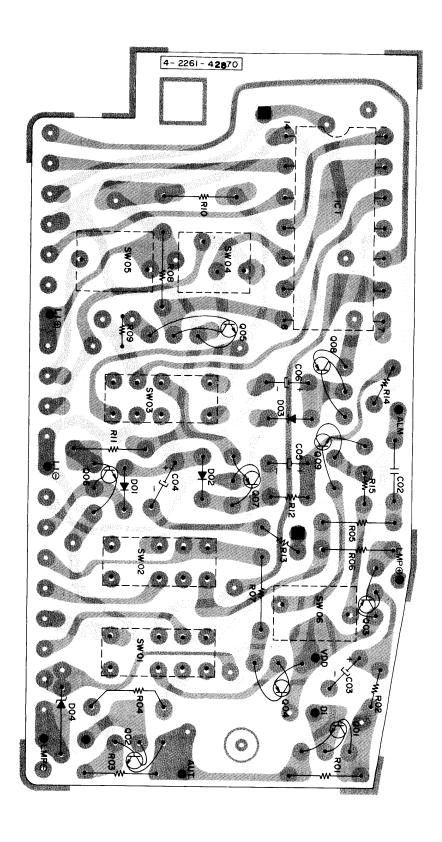


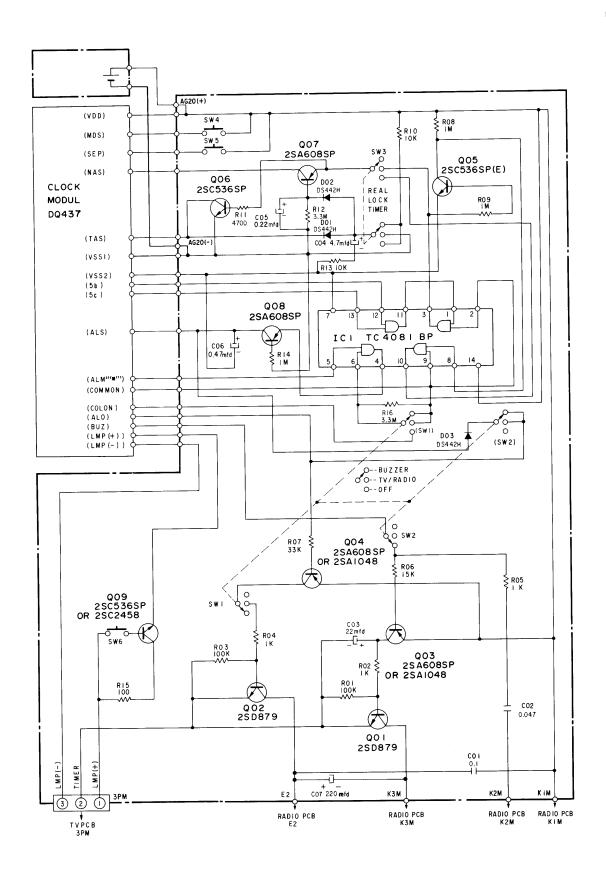
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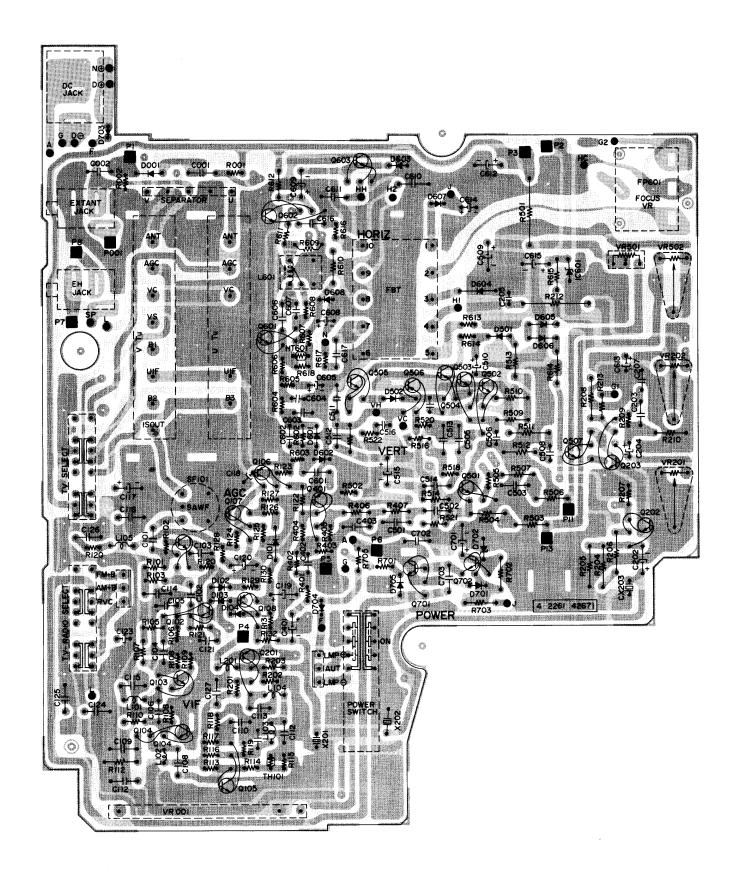












SCHEMATIC DIAGRAM (TV)

NOTES:

- 1. All resistance values in ohm. K = 1.000 M = 1.000.000
- Unless otherwise noted in schematic diagram, all capacitors less than 1 are expressed in mfd, and the values larger than 1 are in pF.
- Voltage reading taken with "VTVM" from point indicated to chassis ground, tuner on unused channel, contrast at max., other controls at normal, local line voltage.
- All waveformes measured with strong signal input, contrast set to give normal picture.
- Voltage reading may vary ±20%.
- This is a fundamental circuit diagram. Some production changes may be made without revision of the diagram.

